

Session Program

Oct 20 - 22, 2025



5th Science Workshop of the Program MML

Parallel: Matter (RT1)

Karlsruhe Institute of Technology, Johann-Gottfried-Tulla-Hörsaal
Englerstraße 11, 76131 Karlsruhe

Tue, October 21

11:00 AM

Parallel: Matter (RT1)

Session |

Location: Karlsruhe Institute of Technology, Johann-Gottfried-Tulla-Hörsaal, Englerstraße 11, 76131 Karlsruhe

11:00 - 11:15

Imaging collective quantum fluctuations of the structure of a complex molecule

Speaker

Benoît Richard

Location

Karlsruhe Institute of Technology, Johann-Gottfried-Tulla-Hörsaal, Englerstraße 11, 76131 Karlsruhe

11:15 - 11:30

Chiral Molecules

Speaker

Vincent Wannier

Location

Karlsruhe Institute of Technology, Johann-Gottfried-Tulla-Hörsaal, Englerstraße 11, 76131 Karlsruhe

11:30 - 11:45

CMOS compatible chip-scale sources of squeezed light

Speaker

Alexander Ulanov

Location

Karlsruhe Institute of Technology, Johann-Gottfried-Tulla-Hörsaal, Englerstraße 11, 76131 Karlsruhe

11:45 - 12:00

Phase transition kinetics of superionic H₂O ice phases revealed by MHz XFEL heating experiments.

Speaker

Rachel Husband

Location

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12:00 - 12:15

Visualizing plasmons and ultrafast kinetic instabilities in laser-driven solids using X-ray scattering

Speakers

Paweł Ordyna, Thomas Kluge

Location

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12:15 - 12:30

Strong field physics / Dynamically assisted nuclear fusion / High precision cross section relevant for solar CNO burn cycle

Speakers

Christian Kohlfürst, D. Bemmerer, Ralf Schützhold

Location

Karlsruhe Institute of Technology, Johann-Gottfried-Tulla-Hörsaal, Englerstraße 11, 76131 Karlsruhe

12:30 - 13:30 **Lunch Break**

13:30 - 13:45

Nanoscale imaging of biological samples by table-top EUV and Soft X-ray microscopy

Speaker

Sophia Kaleta

Location

Karlsruhe Institute of Technology, Johann-Gottfried-Tulla-Hörsaal, Englerstraße 11, 76131 Karlsruhe

13:45 - 14:00

High-purity polarimetry for high photon energies

Speaker

Berit Marx-Glowna

Location

Karlsruhe Institute of Technology, Johann-Gottfried-Tulla-Hörsaal, Englerstraße 11, 76131 Karlsruhe

14:00 - 14:15

High-temperature ^{205}Tl decay clarifies ^{205}Pb dating in early Solar System

Speaker

Jan Glorius

Location

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14:15 - 14:30

High-resolution absorption spectroscopy of heavy-ion-heated matter

Speaker

Zsuzsanna Major

Location

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14:30 - 14:45

Resonant soft X-ray photoelectron spectroscopy studies of metal-oxide nanoparticles in aqueous solution

Speaker

Robert Seidel

Location

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14:45 - 15:00

A 52 W few-cycle, optical parametric chirped-pulse amplifier for soft X-ray generation

Speaker

Daniel Walke

Location

Karlsruhe Institute of Technology, Johann-Gottfried-Tulla-Hörsaal, Englerstraße 11, 76131 Karlsruhe

3:00 PM